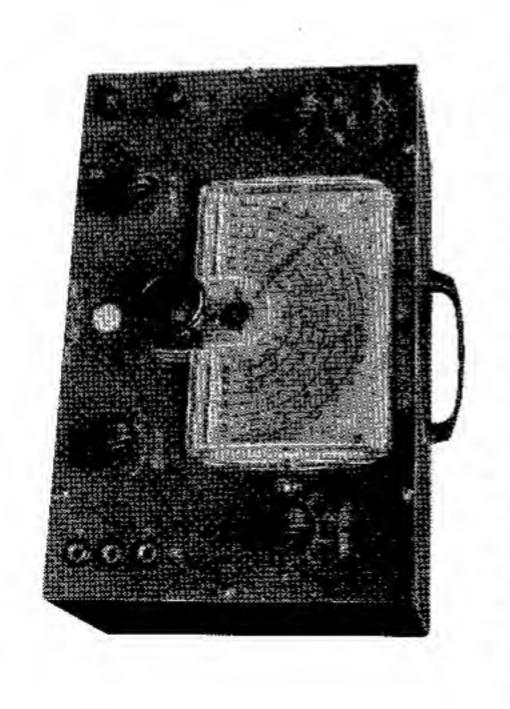
850, TSUNASHIMA-CHO, KOHOKU-KU, YOKOHAMA, JAPAN. OHMATSU ELECTRIC CO., LTD.

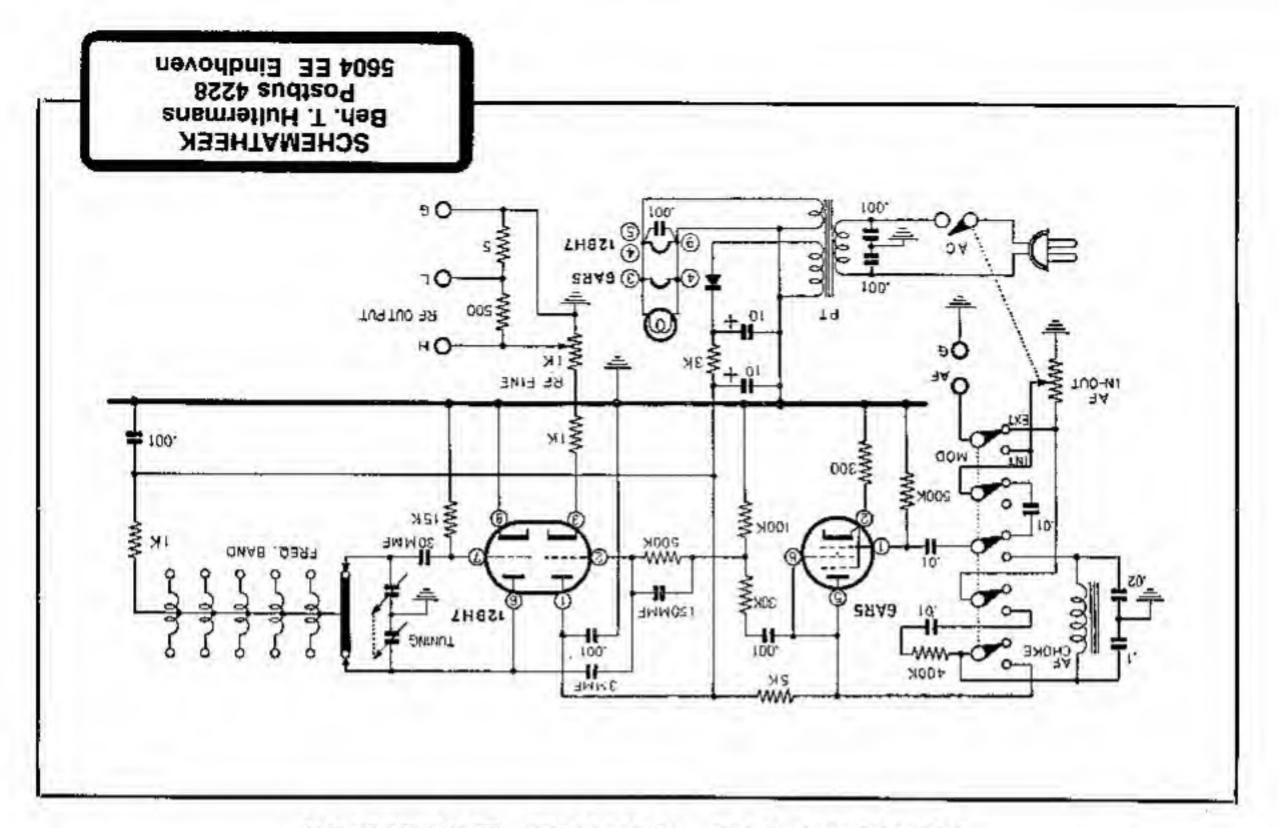


SIGNAL GENERATOR

MODEL LSG-10

SCHEMATHEEK Beh. T. Hultermans Postbus 4228 5664 EE Eindhoven LEADER TEST INSTRUMENTS

SCHEMATIC WIRING DIAGRAM



MODEL LSG-10 SIGNAL GENERATOR

The LSG-TO is a compact and hanby high quality instrument for the radio service benchss, amateur constructor, and for instruction, it is light in weight, occupies small space, and is built for maximum service.

SPECIFICATIONS :	NS : Frequency Range	120 KC to 260 MC	260 MC
	and A	120 KC to 320 KC	320 KC
	œ	320 KC to 1000 KC	1000 KC
	U	1.0 MC to 3.2 MC	3.2 MC
	۵	3.2 MC to 11 MC	11 MC
	ш	11 MC to	38 MC
	ш	37 MC to 130 MC	130 MC
	Calibrated Harmonics	120 MC to 260 MC	260 MC
R. F. Output	Over 100,000 microvolts	ın	
R. F. Control	Variable with 2 taps		
Modulation Freq.	Approximately 403 cps		
A. F. Output	2 to 3 volts		
A. F. Input	Approximately 4 valts		
Tube Complement	R. F. Osc-Buffer	12BH7	
	A. F. Osc-Amplifier	6AR5	
Power Source	valts, 50/60 cps	12 watts	
Size & Weight	61/2"×10"×45.2"	6 lb appr.	
	(250×160×115 mm 2	2.7 kg)	

DESCRIPTION: A. Radio-Frequency Section. A 12BH7 is used as a combined radio frequency oscillator and buffer. One triode section is used as a Colpitts oscillator and the other triode is used for a buffer to isolate the load from the frequency determining portion. The output voltage is continuously variable with two taps, High and Low.

B. Audio Section, A 6AR5 is used as a 400 cycle generator. The output can be used either as an internal modulator or an audio source for external use. When frequencies other than 400 cycles are to be used for modulation, the tube becomes an amplifier.

The frequency calibration can be depended upon to 2%, directly from the scale. However, when a higher degree of accuracy is desired, the generator must be colibrated using a heterodyne frequency meter or other source of accurate frequencies, and calibrated using the logging scale on the dial.

The generator is designed for an volts, 50/60 cps, and care should be taken that a DC source is not used.

A 400 cycle tone should be heard from the speaker of the receiver when the latter The input to the receiver from the generator should be as low as posssible to avoid the center lead of the output cable into the "H" output jack and the shield plug overloading the tubes in the receiver. Excessive inputs cause two resonance points volt AC power line, Insert the plug of Set the "MOD" switch to "INT", and turn the AC switch (lower left) clockwise. connected to the tap to "FREG. BAND" ANT and GND terminals respectively, of the recoiver under test. Set the adjusting the "R. F. FINE" knob, and also by changing the output pe output can into the "G" jack. The center lead and shield clips should be to appear and proper alignment or adjustments are impossible. to the desired frequency by turning the center knob and u. Suitable R. OPERATION : Attach line plug to the generator frequency. is tuned to the

External modulating frequencies may be applied by furning the "MOD" knob to "EXT" and the audio input to the AF binding posts. For audio testing, the 400 cycle output is avilable at the same binding posts by turning the "MOD" swich to "INT", and the output may be varied by the AF IN/OUT control.